

Technical datasheet

Egger PerfectSense® Feelwood Lacquered Boards

Material description:

Decorative, UV coated wood-based material based on Egger Eurospan core boards – board type according EN 312
Use: Decorative wood-based panels for interior uses



Egger Eurospan - board type according to EN 312

For PerfectSense® Feelwood lacquer boards our Egger Eurospan E1E05 TSCA P2 CE ST core boards in accordance with EN 312 are used as standard. Information on the mechanical properties and formaldehyde emissions is directly related to the core material used and the panel thickness. For detailed information, please refer to the respective technical data sheets of the core materials, available at www.egger.com.

PerfectSense® Feelwood – General tolerances

	Test standard	Unit	Thickness range* ¹⁾		
			<15mm	15 bis 20mm	>20 mm
Thickness Feelwood related to the finished size* ²⁾	EN 14323	[mm]	+0,5/-0,3	+0,5/-0,3	±0,5
Length and width commercial available size cut-to-size boards	EN 14323	[mm]	±5	±5	±5
	EN 14323	[mm]	±2,5	±2,5	±2,5
Flatness	EN 14323	[mm/m]	--	≤2* ³⁾	≤2* ³⁾
Edge damage commercial available size cut-to-size boards	EN 14323	[mm]	≤10	≤10	≤10
	EN 14323	[mm]	≤3	≤3	≤3

PerfectSense® Feelwood – Surface properties

Quality feature	Test standard	Class	Value	Unit
Scratch resistance	EN 438-2	≥ Grade 2	≥2* ⁴⁾	[N]
Micro scratch resistance	according DIN CEN/TS 16611	A B	+1 4	Gloss point -
Resistance to chemicals	DIN 68861-1 / EN 12720	1B	-	-
Antibacterial properties	ISO 22196	[level]	certified antibacterial property	
Cross-cut	EN ISO 2409	GT 0 - 1	-	-

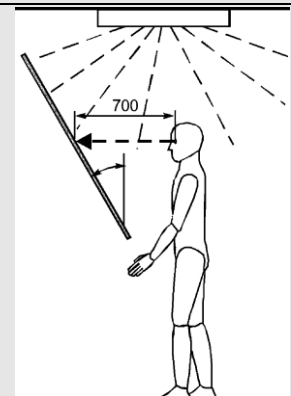
Gloss level				
	EN ISO 2813	60°	3 ± 2	GU
Steam resistance				
	EN438-2	≥ Grade 5	-	-
Resistance to dry heat				
	EN 438-2	≥ Grade 4	140	°C
Resistance to wet heat				
	EN 438-2	≥ Grade 4	100	°C
Light fastness				
	EN 438-2	Grey scale 4		
Wet climate resistance ⁵⁾				
Climate 40 ± 2 °C; relative humidity 85 ± 5%; duration 14 days	AMK-MB-005, module 2	No gap forming or edge breaking		
Alternating climate resistance ⁵⁾				
10 cycles: 1h Climate -20 ± 2 °C; 3h Climate -20 ± 2 °C / humidity 85 ± 5%; 3h Climate 60 ± 2 °C / humidity 55 ± 5%	AMK-MB-005, module 3	No surface cracking, no discoloration, no gap forming or edge breaking		

Surface defects according to AMK-MB- 009

On an even surface, defects must not appear at a distance of 0.7meters. Where surfaces without any defects cannot be realized, small flaws and irregularities in the surface are admissible. Surface defects are only those defects, which are greater than 1.0mm² and recognized when examining the surface at a distance of 0.7meters and an angle of view of about 30°. The defined maximum is 1 defect/m².

The following framework conditions apply:

- Viewing distance: 700 mm
- Lighting intensity: 1000 – 2000 lx
- Inclination angle: 30° to the vertical
- Type of light (daylight, color temperature) D 65: 6500 K
- Viewing duration: max. 20 seconds



¹⁾ relative to the nominal value

²⁾ The finished dimension is the final thickness of the sheet including the coating on the top and bottom side without protective film.

³⁾ only with balanced construction of surfaces

⁴⁾ with ≥ 90 % continuous and clearly visible double circles as scratch marks in N

⁵⁾ refers to the component test with matching Egger edge band (PU-glued)

General notes

Careful inspection of incoming goods is an essential part of proper order processing and is included in the EGGER Group's payment and delivery terms. Egger recommends that this inspection is carried out using general statistical processes. PerfectSense lacquered boards must be transported and stored with care. It is expedient to store the boards lying down on a flat, level and dry ground, with a cover board in a closed building. The max. stacking height is 1.5m (4 packages). The room climate should correspond to a temperature range of 10°C to 50°C and a relative humidity of 65%. In case of deviating conditions, it is recommended to pack the products separately to ensure stable quality. Before installation, it is recommended to condition the product to the expected climate of use. For further information, please visit www.egger.com.

Note: PerfectSense lacquered boards protective film must be removed immediately after processing, but no later than 5 months after delivery to ensure residue-free removal of the film can. Foiled products shall not be exposed to direct sunlight (UV radiation).

Colour matching and surface texture

Since slight variations in colour will occur due to inherent variation in the surfacing papers and the substrate, we recommend that components which are used side by side should be selected from the same production batch to ensure colour compatibility. A slight deviation of color and surface finish according to Class 4 acc. to EN14323 between the EGGER reference sample and the test specimen is permitted. For pearlescent and metallic decors, a deviation of Class 3 acc. to EN14323 is permitted.

Resistance against heat

The resistance against heat of PerfectSense lacquered boards differs between long and short periods of heat exposure. For long and continuous periods of heat exposure, a maximum temperature of 50°C (122°F) is applicable. We kindly advise that continuous exposure in temperatures of over 50°C (122°F) may result in surface defects such as cracks. Installations of technical equipment that emit heat, for instance laptops, require an appropriate distance between heat source and melamine surface to avoid heat accumulation and allow air and temperature circulation.

Antibacterial property

The hygienically sealed and closed surface of this product is 99.9% germ and bacteria free 24 hours after being cleaned and sanitized. The product does not contain a known substance that is intended to prevent, destroy, repel or mitigate a pest, and our product is not a device that is intended to trap, destroy, repel or mitigate pests.

Further documents

Technical datasheet Egger Eurospan E1E05 TSCA P2 CE
Processing instructions PerfectSense® Lacquered Boards
Cleaning and care instructions PerfectSense® Lacquered Boards

Provisional note:

This technical datasheet has been carefully drawn up to the best of our knowledge. We accept no liability for any mistakes, errors in standards, or printing errors. In addition, technical modifications may result from the continuous development of EGGER PerfectSense® Lacquered Boards, as well as from changes to standards and public law documents. The contents of this technical datasheet should therefore not be considered as instructions for use or as legally binding. Our General Terms and Conditions apply.